

Foundry:

OEM

Objective:

- Cast liners with a textured outer surface
- Suitable for gravity, low and high pressure die casting
- No additional treatment of the outer surface is necessary

Alloy:

GJL 250 (alloyed) or similar

Process:

- Centrifugal casting process
- Cast pipes only machined on the inner surface
- Cleaning of the external surface, to reduce adhered particles

Pouring temperature:

Typically 1320 - 1400 °C, but dependant on alloy and section thickness

Requirements:

- Controlled and repeatable process
- Specified metallurgy, microstructure, hardness and strength of the cast pipes
- Overall external pipe diameter, height and distribution of protrusions

Problems:

- Original shape and distribution of surface protrusions provided a poor interface with aluminium
- Metal specification originally specified for sand casting process

Improvements:

- No machining of the external surface required
- Controlled microstructure
- Reduced adherence of residual coating
- Suitable for both low and gravity diecasting process
- Excellent anchorage with cast aluminium

FOSECO PRODUCTS

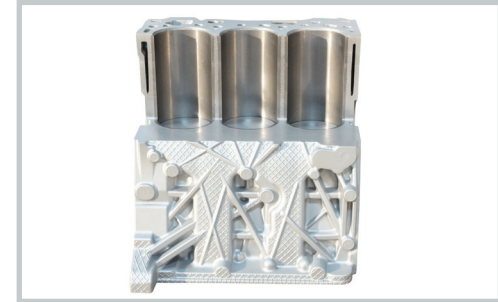
- + SPUNCOTE* SP
- + INOCULIN* SR 50
- + KALTEK* Ladle Lining
- + KALTEK Lids

KEY BENEFITS

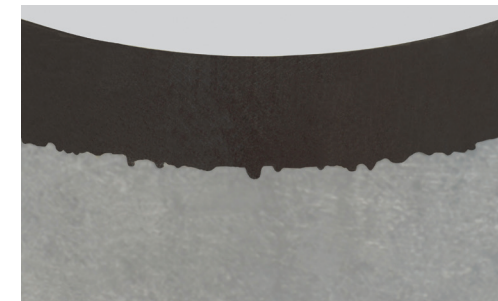
- + Zero machining of external surface
- + Easy cleaning of external surface
- + Suitable for high, low and gravity diecasting processes

ENVIRONMENTAL BENEFITS

- + No Silica flour used
- + Reduced dust
- + Reduced energy consumption of the total process



Engine block to demonstrate Foseco Liner technology



Cross sectional view of a conventional liner application



Cross sectional view of a liner application with Foseco technology

MOULD & CORE – IRON

